

CALL FOR PAPERS

Symposium on **MOLECULAR MODELING: METHODS & APPLICATIONS**

*7th ASME International Conference on Multibody Systems, Nonlinear Dynamics
and Control*

to be held in conjunction with the
ASME 2009 International Design Engineering Technical Conferences

at the
San Diego Convention Center, San Diego, California
August 30 – September 2, 2009

The goal of this symposium is to present a forum for discussions on recent developments in methods for modeling and simulations of large bio-molecules, microscale biological structures and materials. These methods may include, but are not limited to, multi-scale modeling, normal mode analysis, reduced order modeling using rigid or flexible body representations, articulated multibody methods, continuum-mechanics based methods, low order algorithms applied to molecular dynamics simulations, efficient force calculation methods, efficient methods for calculating functional and structural properties, applications of these methods or traditional molecular dynamics to novel biomolecular and materials modeling, reviews of notable works in molecular dynamics, discussions on modeling challenges, etc.

Full-length papers are invited in these topics from all disciplines of science and engineering. Papers must be submitted electronically in a pdf format as described in the IDETC 2009 web site at <http://www.asmeconferences.org/IDETC09/> before **February 6, 2009**. All manuscripts will be reviewed and, if accepted, the associated technical paper will be published in the conference proceedings on CD-ROM. For more information about the conference, please contact:

Dr. Rudranarayan Mukherjee,
NASA Jet Propulsion Laboratory,
California Institute of Technology
Email: rmukherj@jpl.nasa.gov
Tel: 818-298-6211

Prof. Sachin Goyal,
Dept. of Theoretical and Applied
Mechanics
Cornell University
Email: sgoyal@cornell.edu
Tel: 607-255-5063